Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-01-02** **Date: 03-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-18
Sample ID No	:	2018-03-01-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of Test	:	01-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-01-02 **Date: 29-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-18
Sample ID No	:	2018-03-01-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-01-02** **Date: 03-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-03-18
Sample ID No	:	2018-03-01-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	01-03-18

Asst. Executive Engineer, Project Division, Vrishabhanka Zone, Bangalore

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-01-02** **Date: 03-03-18**

Sample ID No : 2018-03-01-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.3**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.6**	
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.19**	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-01-02** **Date: 03-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-18
Sample ID No	:	2018-03-01-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-03-18

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	201	201	4.0	96.0	90-100
3	10 mm	2652	2853	57.1	42.9	25-55
4	4.75 mm	1936	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-01-02** **Date: 03-03-18**

Sample ID No : 2018-03-01-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**9.3**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.60**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.19**	_
7	Aggregate crushing Value(%)	**23.1**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.4**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Assl. Executive Engineer
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Yelahanka Zone
Bangalore

Note:

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Authorized Signature
Quality Manager

End of Report

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-03-01-02** **Date: 03-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-18
Sample ID No	:	2018-03-01-02 /03
Sample Type	:	Fine Aggregate
Reference to BIS code	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-03-18
Total weight taken	:	1000 grams

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	191	961	96.1	3.9	0-10	0-10	0-10	0-15
8	Pan	39	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-01-02** **Date: 03-03-18**

Sample ID No : 2018-03-01-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.31	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	3.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-19-09** **Date: 21/03/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road in Ward No.10

Agency : M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.

Customer's Reference : BBMP/BZ/EE(PR)/WO/01/15-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-03-18

Sample ID No : 2018-03-19-09 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	14/03/2018	21/03/2018	149.17 X 151.34 X 150.22	22575	8.145	404.1	17.9	17.5
2	M20 Concrete	M20	14/03/2018	21/03/2018	150.49 X 150.16 X 150.34	22598	8.201	393.2	17.4	
3	M20 Concrete	M20	14/03/2018	21/03/2018	150.55 X 149.65 X 149.31	22530	8.197	385.3	17.1	

Note:
The results pertain to the samples received and tested.
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Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
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Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-19-09** **Date: 11/04/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road in Ward No.10

Agency : M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.

Customer's Reference : BBMP/BZ/EE(PR)/WO/01/15-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-03-18

Sample ID No : 2018-03-19-09 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	14/03/2018	11/04/2018	149.35 X 151.54 X 151.37	22632	8.195	500.2	22.1	21.7
2	M20 Concrete	M20	14/03/2018	11/04/2018	150.49 X 150.00 X 149.64	22574	8.146	489.8	21.7	
3	M20 Concrete	M20	14/03/2018	11/04/2018	151.37 X 150.55 X 151.08	22789	8.198	487.7	21.4	

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